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FIGURE 1

BFA4 cDNA Sequence

ATG G T C C G G A A A A A G A A C C C C C C T C T G A G A A A C G T T G C A A G T G A A G G C G A G G G C C A G A T C C T G G A G C C T A T A G G T A C A G A A A G C A A G G T
A T C T G G A A A G A A C A A A G A A T T C T C T G C A G A T C A G A T G T C A G A A A A T A C G G A T C A G A G T G A T G C T G C A G A A C T A A A T C A T A A G G A G A A C A
5 TAG C T T G C A T G T T C A A G A T C C A T C T T C T A G C A G T A A G A A G A C T T G A A A A G C G C A G T T C T G A G T G A G A A G G C T G G C T T C A A T T A T G A A A G
C C C C A G T A A G G G A G G A A A C T T T C C C T C C T T T C C G C A T G A T G A G G T G A C A G A C A G A A A T A T G T T G G C T T T C T C A T T T C C A G C T G C T G G G G G
A G T C T G T G A G C C C T T G A A G T C T C C G C A A A G A G C A G A G G C A G A T G A C C C T C A A G A T A T G G C C T G C A C C C C C T C A G G G G A C T C A C T G G A G A C
A A A G G A A G A T C A G A A G A T G T C A C C A A A G G C T A C A G A G G A A A C A G G G C A A G C A C A G A G T G G T C A A G C C A A T T G T C A A G G T T T G A G C C C A G T
T T C A G T G G C C T C A A A A A C C C A C A A G T G C C T T C A G A T G G G G G T G T A A G A C T G A A T A A A T C C A A A A C T G A C T T A C T G G T G A A T G A C A C C C
10 A G A C C C G C A C C T C T G T C T C A G A G C T T C A G G A C T T T A A A T G C A A T A T C T G T G G A T A T G G T T A C T A C G G C A A C G A C C C C A C A G A T C T G A T
T A A G C A C T T C C G A A G T A T C A C T T A G G A C T G C A T A A C C G C A C C A G G C A A G A T G C T G A G C T G G A C A G C A A A A T C T T G G C C C T T C A T A A C A T
G G T G C A G T T C A G C C A T T C C A A A G A C T T C C A G A A G G T C A A C C G T T C T G T G T T T T C T G G T G T G C T G C A G G A C A T C A A T T C T T C A A G G C C T G T
T T T A C T A A A T G G G A C C T A T G A T G T G C A G G T G A C T T C A G G T G G A A C A T T C A T T G G C A T T G G A C G G A A A C A C C A G A T T G C C A A G G G A A C A C
C A A G T A T T T C C G C T G T A A A T T C T G C A A T T C A C T T A T A T G G G C A A C T C A T C C A C C G A A T T A G A A C A C A T T T T C T T C A G A C T C A C C C A A A
15 C A A A T A A A A G C T T C T C T C C C C T C C T C T G A G G T T G C A A A C C T T C A G A G A A A A C T C T A A C A A G T C C A T C C C T G C A C T T C A A T C C A G T G A
T T C T G G A G A C T T G G G A A A T G G C A G G A C A A G A T A A C A G T C A A A G C A G G A G A T G A C A C T C C T G T T G G G T A C T C A G T G C C C A T A A A G C C C C T
C G A T T C C T C T A G A C A A A A T G G T A C A G A G C C A C C A G T T A C T A C T G G T G T A A A T T T T G T A G T T T C A G C T G T G A G T C A T C T A G C T C A C T T A A
A C T G C T A G A A C A T T A T G G C A A G C A G C A C G G A G C A G T G C A G T C A G G C G C C T T A A T C C A G A G T T A A T G A T A A G C T T T C C A G G G G C T C T G T
C A T T A A T C A G A A T G A T C T A G C C A A A G T T C A G A A G G A G A C A A T G A C C A A G A C A G A C A A G A G C T C G A G T G G G G C T A A A A A G A A G G A C T T
20 C T C C A G C A A G G G A G C C G A G G A T A A T A T G G T A A C G A G C T A T A A T T G T C A G T T C T G T G A C T T C C G A T A T T C C A A A A G C C A T G G C C C T G A T G T
A A T T G T A G T G G G G C C A C T T C T C C G T C A T T A T C A A C A G C T C C A T A A C A T T C A C A A G T G T A C C A T T A A A C A C T G T C C A T T C T G T C C C A G A G G
A C T T T G C A G C C C A G A A A A G C A C C T T G G A G A A A T T A C T T A T C C G T T T G C T T G T A G A A A A G T A A T T G T T C C C A C T G T G C A C T C T T G C T T C T
G C A C T T G T C T C C T G G G G C G G C T G G A A G C T C G C G A G T C A A A C A T C A G T G C C A T C A G T G T T C A T T C A C C A C C C C T G A C G T A G A T G T A C T C C T
C T T T C A C T A T G A A A G T G T G C A T G A G T C C C A A G C A T C G G A T G T C A A A C A A G A A G C A A A T C A C C T G C A A G G A T C G G A T G G G C A G C A G T C T G T
25 C A A G G A A A G C A A A A C A C T C A T G T A C C A A T G T G A T T T A T T A C C C A A G T G G A A G A G A G A T T T C C C G A C A C T A C A G G A G A G C A C A C A G
C T G C T A C A A T G C C G T C A G T G C A G T T T T A C A G C T G C C G A T A C T C A G T C A C T A C T G G A G C A C T T C A A C A C T G T T C A G T G C C A G A A C A G G A
C A T C A C T A C A G C C A A C G G C G A A G A G A G A C G G T C A T G C C A T A T C C A C C A T C A A A G A G A G C C A A A A T T G A C T T C A G G G C T C A A A T C T G A A T C T G C T
A A C T C C A G A C T C T A A A A T G G G A G A G C C A G T T T C T G A G A G T G T G G T G A A G A G A G A A G C T G G A A G A G A A G G A C G G G C T C A A A G A A A A G T
T T G G A C C G A G A G T T C C A G T G A T G A C C T T C G C A A T G T G A C T T G G A G A G G G C A G A C A T C C T G C G G G G A G T C C G T C A T A C A C C C A A G C A A G
30 C C T G G G G C T G C T G A C G C C T G T G T C T G G C A C C C A A G A G C A G A C A A A G A C T C T A A G G G A T A G T C C C A A T G T G G A G G C C G C C C A T C T G G C G C G
A C C T A T T T A T G G C T T G G C T G T G G A A C C A A G G G A T T C C T G C A G G G G C G C C A G C T G G C G A G A G A A G T C T G G G G C C C C C C C A G C A G T A
T C C T G C A T C G G G A G A A A C A A G T C C A A G G A T G A A T C C C A G T C C C T G T T A C G G A G G C G T A G A G G C T C C G G T G T T T T T G T G C C A A T T G C C T
G A C C A C A A A G A C C T C T C T G G C G A A A G A A T G C A A A T G G C G G A T A T G T A T G C A A C G C G T G T G G C C T C T A C C A G A A G C T T C A C T C G A C T C C
C A G G C C T T T A A C A T C A T T A A A C A A A C A A C G G T G A G C A G A T T A T T A G G A G G A G A A C A A G A A A G C G C C T T A A C C C A G A G G C A C T T C A G G C
35 T G A G C A G C T C A A C A A C A G C A G A G G G C A G C A A T G A G G A G C A A G T C A A T G G A A G C C C G T T A G A G A G G A G G T C A G A A G A T C A T C T A A C T G A
A A G T C A C C A G A G A G A A A T T C C A C T C C C A G C C T A A G T A A A T A C G A A G C C A G G G T T C A T T G A C T A A A A G C C A T T C T G C T C A G C A G C C A G T
C C T G G T C A G C C A A A C T C T G G A T A T T C A C A A A A G G A T G C A A C C T T T G C A C A T T C A G A T A A A A G T C C T C A G G A A A G T A C T G G A G A T C C A G G
A A A T A G T T C A T C C G T A T C T G A A G G G A A G G A A G T T C T G A G A G A G G C A G T C C T A T A G A A A A G T A C A T G A G A C C T G C G A A A C A C C C A A A T T A
T T C A C C A C C A G G C A G C C C T A T T G A A A A G T A C C A G T A C C C A C T T T T T G G A C T T C C C T T T G T A C A T A A T G A C T T C C A G A G T G A A G C T G A T T G
40 G C T G C G G T T C T G G A G T A A A T A T A A G C T C T C C G T T C C T G G G A A T C C G C A C T A C T T G A G T C A C G T G C C T G G C C T A C C A A A T C C T T G C C A A A A
C T A T G T G C C T T A T C C C A C C T T C A A T C T G C C T C C T A T T T T C A G C T G T T G G A T C A G A C A A T G A C A T T C C T C T A G A T T T G G C G A T C A A G C A
T T C C A G A C C T G G G C C A A C T G C A A A C G G T G C C T C C A A G G A G A A A C G A A G G C A C C A C C A A A T G T A A A A A T G A A G G T C C C T T G A A T G T A G T
A A A A C A G A G A A A G T T G A T A G A A G T A C T C A A G A T G A C T T T C A C A A A A T G T G T G C A C T G T G G C A T T G T C T T T C T G G A T G A A G T G A T G T A
T G C T T T G C A T A T G A G T T G C C A T G G T G A C A G T G G A C C T T T C A G T G C A G C A T A T G C C A G C A T C T T T G C A C G G A C A A A T A T G A C T T C A C A A C
45 A C A T A T C C A G A G G G C C T G C A T A G G A C A A T G C A C A A G T G G A A A A A A T G G A A A C C T A A A G A G T A A *

FIGURE 2

BFA4 Amino Acid Sequence

MVRKKNPPLRNVASEGEGQILEPIGTESKVS GKNKEFSADQMSENTDQSDAAELNHKEEHS LHVQDPSSS
SKKDLKSAVLSEKAGFNYESPSKGGNFPSFPHDEVTDNRMLAFSFPAAAGGVCEPLKSPQRAEADDPQDMA
5 CTPSGDSLETKEDQKMSPKATEETGQAQSGQANCQGLSPVSVASKNPQVPSDGGVRLNKS KTDLLVNDNP
DPAPLSPELQDFKCNICGYGYGNDPTDLIKHFRKYHLGLHNRTQDAELDSKILALHNMVQF SHSKDFQ
KVNRSVFSGVLQDINSSRPVLLNGTYDVQVTSGGTFIGIGRKT PDCQGNTKYFRCKFCNFTYMGNSS TEL
EQHFLQTHPNKIKASLPSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKAGDDTPVGYSVPIKPL
DSSRQNGTEATSYWCKFCFSFCESSSSSLKLEHYGKQHGAVQSGGLNPELNDKLSRGSVINQNDLAKSS
10 EGETMTKTDKSSSGAKKKDFSSKGAEDNMVTSYNQCFCDFRYSKSHGPDVIVVGPLL RHYQQLHNIHKCT
IKHCPFCPRGLCSPEKHLGEITYPFACRKSNC SHCALLEHLSPGAAGSSRVKHQCHQCSFTTPD VDVLL
FHYESVHESQASDVKQEANHLQGS DQQSVKESKEHSCTKCDFITQVEEEISRHYRRAHSCYKCRQCSFT
AADTQSLLEHFNTVHCQE QDITTANGEEDGHAISTIKKEEPKIDFRVYNLLTPDSKMGE PVSESVVKREKL
EEKDGLKEKVVWTESSSDDL RNVTWRGADILRGSPSYTQASLGLLTPVSGTQEQT KTLRDSPNVEAAHLAR
15 PIYGLAVETKGFLQGAPAGGEKSGALPQQYPASGENKSKDESQSLLRRRRRGSGVFCANCLT TKTSLWRKN
ANGGYVCNACGLYQKLHSTPRPLNIIKQNNGEQII RRRTRKRLNPEALQAEQLNKQQRGSNEEQVNGSPL
ERRSEDHLTESHQREIPLPSLSKYEAQGS LTKSHSAQQPVLVSQTLDIHKRMQPLHIQIKSPQESTGDPG
NSSSVSEGGKSSSERGSPIEKYM RPAKHPNYSPPGSPIEKYQYPLFGLPFVHNDFQSEADWLRFW SKYKLS
VPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPHFS AVGSDNDIPLDLAIKHSRPGPTANGASKEKTKAPPN
20 VKNEGPLNVVKTEKVD RSTQDELSTKCVHCGIVFLDEVMYALHMSCHGDSGPFQCSI CQHLCTDKYDFTT
HIQRGLHRNNAQVEKNGKPKE

FIGURE 3

A. BCY1 cDNA Sequence

[illegible]

B. BCY1 Amino Acid Sequence

45	MAELRLKGSS	NTTECVPVPT	SEHVAEIVGR	QGCKIKALRA	KTNTYIKTPV	RGEPPVFMVT
	GRREDVATAR	REIISAAEHF	SMIRASRNKS	GAAFGVAPAL	PGQVTIRVRV	PYRVVGLVVG
	PKGATIKRIQ	QQTNTYIITP	SRDRDPVFEI	TGAPGNVERA	REEIETHIAV	RTGKILEYNN
	ENDFLAGSPD	AAIDSRYSDA	WRVHQPGCKP	LSTFRQNSLG	CIGECGVDSG	FEAPRLGEQG
	GDFGYGGYLF	PGYGVGKQDV	YYGVAETSP	LWAGQENATP	TSVLFSSASS	SSSSSAKARA
50	GPPGAHRSPA	TSAGPELAGL	PRRPPGEPLQ	GFSKLGGGGL	RSPGGGRDCM	
	VCFESEVTAA	LVPCGHNLC	MECAVRICER	TDPECPVCHI	TAAOAIRIFS	

FIGURE 4

ATGACAAAGAGGAAGAAGACCATCAACCTTAATATACAAGACGCCAGAGGAGGACTGCTCTACACTGGGCCTGTGTCAAT
 GGCCATGAGGAAGTAGTAACATTTCTGGTAGACAGAAAGTGCCAGCTTGACGTCCTTGATGGCGAACACAGGACACCTCTG
 5 ATGAAGGCTCTACAATGCCATCAGGAGGCTTGTGCAAATATTCTGATAGATTCTGGTGCCGATATAAATCTCGTAGATGTG
 TATGGCAACATGGCTCTCCATTATGCTGTTTATAGTGAGATTTTGTGTCAGTGGTGCCAAAAGTCTGTGCCATGGTGCACTC
 ATCGAAGTGCACAACAAGGCTAGCCTCACACCACTTTTACTATCCATAACGAAAAGAAGTGAGCAAATTTGTGGAATTTTGTG
 CTGATAAAAAATGCAAATGCGAATGCAGTTAATAAGTATAAATGCACAGCCCTCATGCTTGTGTATGTGCATGGATCATCA
 GAGATAGTTGGCATGCTTCTTCAGCAAAATGTTGACGTCTTGTGTCAGATATATGTGGAGTAACTGCAGAACATTATGCT
 10 GTTACTTGTGGATTTTCATCACATTTCATGAACAAATTATGGAATATATACGAAAATTATCTAAAAATCATCAAAATACCAAT
 CCAGAAGGAACATCTGCAGGAACACCTGATGAGGCTGCACCCCTTGGCGGAAAGAACACCTGACACAGCTGAAAAGCTTGGTG
 GAAAAAACACCTGATGAGGCTGCACCCCTTGGTGGAAAGAACACCTGACACGGCTGAAAGCTTGGTGGAAAAAACACCTGAT
 GAGGCTGCATCCTTGGTGGAGGGAACATCTGACAAAATTCAATGTTTGGAGAAAGCGACATCTGGAAAGTTTGAACAGTCA
 GCAGAAGAAACACCTAGGGAAATTACGAGTCTTGCAAAAGAAACATCTGAGAAATTTACGTGGCCAGCAAAAGGAAGACCT
 15 AGGAAGATCGCATGGGAGAAAAAGAAAGACACACCTAGGGAAATTATGAGTCCCGCAAAAGAAACATCTGAGAAATTTACG
 TGGGCAGCAAAAGGAAGACCTAGGAAGATCGCATGGGAGAAAAAGAAACACCTGTAAAGACTGGATGCGTGGCAAGAGTA
 ACATCTAATAAACTAAAGTTTGGAAAAAGGAAGATCTAAGATGATTGCTATGCTCTACAAAAGAATCATCTACAAAAGCA
 AGTGCCAAATGATCAGAGGTTCCCATCAGAATCCAAACAAAGAGGAAGATGAAGAATATTCTGTGATTCTCGGAGCTTGGTG
 GAGAGTTCTGCAAAGATTCAAGTGTGTATACCTGAGTCTATATATCAAAAAGTAATGGAGATAAATAGAGAAGTAGAAGAG
 20 CCTCCTAAGAAGCCATCTGCCTTCAAGCCTGCCATTGAAATGCAAACTCTGTTCCAAATAAAGCCTTTGAATTGAAGAAT
 GAACAAACATTGAGAGCAGATCCGATGTTCCACCAGAATCCAAACAAAGGACTATGAAGAAAATTCTTGGGATTCTGAG
 AGTCTCTGTGAGACTGTTTACAGAAGGATGTGTGTTTACCCAAAGGCTACACATCAAAAAGAAATAGATAAAATAAATGGA
 AAATTAGAAGAGTCTCCTAATAAAGATGGTCTTCTGAAGGCTACCTGCGGAATGAAAGTTTCTATTCCAACCTAAAGCCTTA
 GAATTGAAGGACATGCAAACTTTCAAAGCGGAGCCTCCGGGGAAGCCATCTGCCTTCGAGCCTGCCACTGAAATGCAAAAG
 25 TCTGTCCCAATAAAGCCTTGGAAATTGAAAAATGAACAAACATGGAGAGCAGATGAGATACTCCCATCAGAATCCAAACAA
 AAGGACTATGAAGAAAATTCTTGGGATACTGAGAGTCTCTGTGAGACTGTTTACAGAAGGATGTGTGTTTACCCAAAGGCT
 GCGCATCAAAAAGAAATAGATAAAATAAATGGAATAATAGAAGGGTCTCCTGTTAAAGATGGTCTTCTGAAGGCTAACTGC
 GGAATGAAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAAGCCA
 TCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGAATGGAAGATGAACAAACATTGAGA
 30 GCAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATGAAGAAAAGTTCTTGGGATTCTGAGAGTCTCTGTGAGACT
 GTTTACAGAAGGATGTGTGTTTACCCAAAGGCTACACATCAAAAAGAAATAGATAAAATAAATGGAATAATAGAAGAGTCT
 CCTGAATGATGGTTTCTGAAGGCTCCCTGAGAGTGAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGATGGACATG
 CAAACTTTCAAAGCAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCAAAATGCAAAAGTCTGTTCCAAATAA
 GCCTTGAATGGAAGATGAACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAATCAAAAACAAAGAGTTGAAGAA
 35 AATTCTTGGGATTCTGAGAGTCTCCGTGAGACTGTTTACAGAAGGATGTGTGTGTACCCAAAGGCTACACATCAAAAAGAA
 ATGGATAAAATAAGTGGAAAATTAGAAGATTCAACTAGCCTATCAAAAATCTTGGATACAGTTTATTCTTGTGAAAGAGCA
 AGGGAACCTTCAAAAAGATCACTGTGAACAACGTACAGGAAAAATGGAACAAATGAAAAAGAAGTTTTGTGTACTGAAAAAG
 AAAGTGTGAGAGCAAAAGAAATAAATCAAGTTAGAGAACC AAAAGTTAAATGGGAACAAGAGCTCTGCAGTGTGAGA
 TTGACTTTAAACCAAGAAGAAGAGAAGAGAAGAAATGCCGATATATTAATGAAAAAATTAGGGAAGAATTAGGAAGAATC
 40 GAAGAGCAGCATAGGAAAAGAGTTAGAAGTGAAACAACAACCTGAAACAGGCTCTCAGAATACAAGATATAGAATTGAAGAGT
 GTAGAAAGTAATTTGAATCAGGTTTCTCACACTCATGAAAATGAAAAATTATCTCTTACATGAAAATTGCATGTTGAAAAAG
 GAAATTGCCATGCTAAAACCTGGAAATAGCCACACTGAAACACCAATACCAGGAAAAGGAAAATAAATACTTTGAGGACATT
 AAGATTTTAAAGAAAAGAATGCTGAACTTCAGATGACCTTAAACTGAAAGAGGAATCATTAATAAAGGGCATCTCAA
 TATAGTGGGCAGCTTAAAGTTCTGATAGCTGAGAACACAATGCTCACTTCTAAATTGAAGGAAAAACAAGACAAAGAAATA
 45 CTAGAGGCAGAAATTGAATCACACCATCCTAGACTGGCTTCTGCTGTACAAGACCATGATCAAAATTGTGACATCAAGAAAA
 AGTCAAGAACCTGCTTTCCACATTGCAGGAGATGCTTGTGTTGCAAGAAAAATGAATGTTGATGTGAGTAGTACGATATAT
 AACAATGAGGTGCTCCATCAACCCTTTCTGAAGCTCAAAGGAAATCCAAAGCCTAAATAATCTCAATTATGCAGGA
 GATGCTCTAAGAGAAAATACATTGGTTTTCAGAACATGCACAAAGAGACCAACGTGAAACACAGTGTCAAATGAAGGAAGCT
 GAACACATGTATCAAAACGAACAAGATAATGTGAACAAACACACTGAACAGCAGGAGTCTCTAGATCAGAAATTATTTCAA
 50 CTACAAAGCAAAATATGTGGCTTCAACAGCAATTAGTTTCATGCACATAAGAAAGCTGACAACAAAGCAAGATAACAATT
 GATATTCAATTTCTTGAAGAGGAAAATGCAACATCATCTCTAAAGAGAAAAATGAGGAGATATTTAATTACAATAACCAT
 TTAAAAAACCGTATATATCAATATGAAAAAGAGAAAGCAGAAACAGAAAACCTCATGA

FIGURE 5

5 MTKRKKKTINLNIQDAQKRTALHWACVNGHEEVVTFVLDRKCQLDVL DGEHRTPLMKALQCHQEACANILIDSGADINLVDV
YGNMALHYAVYSEILSVVAKLLSHGAVIEVHNKASLTPLLLSITKRSEQIVEFLLIKNNANANAVNKYKCTALMLAVCHGSS
EIVGMMLQQNVDFVFAADICGVTAEHYAVTCGFHHIHEQIMEYIRKLSKNHQNTNPEGTSAGTPDEAAPLAERTPDTAESLV
EKTTPDEAAPLVERTPDTAESLVEKTPDEAASLVEGTSDKIQCLEKATSGKFEQSAEETPREITSPAKETSEKFTWPAKGRP
RKIAWEKKEDTPREIMSPAKETSEKFTWAAKGRPRKIAWEKKETPVKTGCVARVTSNKT KVLEKGRSKMIACPTKESSTKA
SANDQRFPSSESKQEEDDEEYSCDSRSLFESSAKIQVCIPESIIYQKVM EINREVEEPPKKPSAFKPAIEMQNSVPNKAFELKN
10 EQTLRADPMFPPESKQKDYEENSWDSESLCETVSQKDVCLPKATHQKEIDKINGKLEESPNKDGLLKATCGMKVSIPTKAL
ELKDMQTFKAEP PGKPSAFEPATEM QKSVPNKALELKNEQ TWRAD EILPSESKQKDYEENSWDTESLCETVSQKDVCLPKA
AHQKEIDKINGKLEGSPVKDGLL KANCGMKVSIPTKALELMDMQTFKAEPPEKPSAFEP A IEMQKSVPNKALELKNEQTLR
ADEILPSESKQKDYEESSWDSESLCETVSQKDVCLPKATHQKEIDKINGKLEESPDNDGFLKAPCRMKVSIPTKALELMDM
QTFKAEPPEKPSAFEP A IEMQKSVPNKALELKNEQTLRADQMFPSESKQKVEENSWDSESLRETVSQKDVCPKATHQKE
15 MDKISGKLEDSTSLSKILD TVHSCERARELQKDHCEQRTGKMEQM KKKFCVLKKKLSEAKEIKSQLENQKV KWEQELCSVR
LTLNQEEEEKRRNADILNEKIREELGRIEEEQHRKELEVKQOLEQALRIQDI ELKSVESNLNQVSH THENENYLLHENCMLKK
EIAMLKLEIATLKHQYQEKENKYFEDIKILKEKNAELQMTLKLKEESLTKRASQYSGQLKVLI AENTMLTSKLKEKQDKEI
LEAEIESHHPRLASAVQDHDQIVTSRKSQEP AFHIAGDA CLQRKMNV DVSSTIYNNEVLHQPLSEAQRKSKSLKINLNYAG
DALRENTLVSEHAQRDQRETQCMKEAEHMYQNEQDNVNKHTEQQESLDQKLFQLQSKNMWLQQQLVHAHKKADNKS KITI
20 DIHFLEKMQHHLLKEKNEEIFNYYNNHLKNRIYQYEKEKAETENS